





gs_baa@usgs.gov

Charley Hickman National Map Liaison to Michigan and Ohio June 2, 2015

+ Michigan 3DEP State/Regional Coordination Workshop Agenda

- Logistics
- Broad Agency Announcement (BAA) Overview
- SeaSketch Viewer
 - Federal Lidar Acquisition Requirements
 - Public Areas of Interest
- On-going State Coordination efforts
- Presentations of lidar acquisition areas of interest by stakeholder community
- Open discussion and collaboration among stakeholder community on potential projects



+ Michigan 3DEP State/Regional Coordination Workshop 3DEP BAA Background – National Map Liaison Roles

- Historically, National Map Liaisons have been directly engaged in project formulation activities for data acquisition
- The BAA was put in place to increase visibility and accessibility of 3DEP partnership opportunities with the USGS. This requires a fair and competitive process. To ensure that no one has an unfair advantage over another, National Map Liaisons must recuse themselves from the formulation and direct coordination of BAA project proposals.
- National Map Liaisons can actively promote goals, objectives and accomplishments of 3DEP; we can promote these forums and the SeaSketch viewer, however we are not able to assist with direct project formulation or partnership coordination prior to project awards. Potential partners are encouraged to continue to engage with others with shared geographic areas of interest.
- Once projects are selected, National Map Liaisons can assist with partnership agreements needed to support the acquisition process



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Logistics

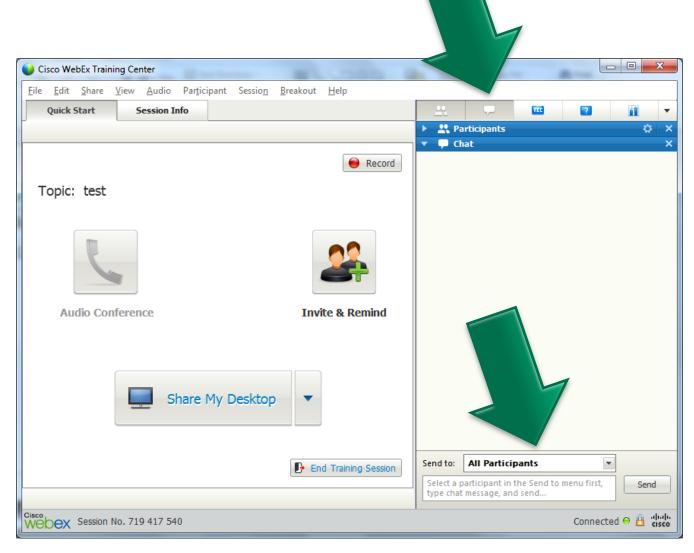
- This meeting consists of both in-person and virtual attendees.
- To accommodate our virtual colleagues, those in the room are asked to speak directly into the microphone.
- Virtual attendees will make use of the chat feature to submit questions – see the panel on the right
 - Submit chat to "all participants"
 - Chat will be saved to assure a thorough response to all questions
- To maintain a similar record, In-person attendees are asked to jot down and submit 3DEP and/or BAA program specific questions on provided index cards
 - Questions passed to 3DEP program office







WebEx Chat







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Logistics

- 3DEP BAA program specific questions will be passed to the 3DEP program office so questions and responses can be added to the BAA FAQ
 - FAQs posted on http://www.geoplatform.gov/elevation/3DEP/PublicMeetings
- Program specific BAA questions can also be submitted to the e-mail address <u>gs_baa@usgs.gov</u>
- Meeting attendees are encouraged to continue their interaction subsequent to the meeting by making use of the contact information provided by the presenters.





3D Elevation Program (3DEP)

Resources

3D Elevation Program (3DEP) FY15/16 Broad Agency Announcement (BAA) Information Sharing Site https://www.geoplatform.gov/elevation/3DEP

3D Elevation Program (3DEP)
Upcoming Public Meetings (Webinars, Workshops)
https://www.geoplatform.gov/elevation/3DEP/PublicMeetings

The 3D Elevation Program Initiative – A Call for Action http://pubs.usgs.gov/circ/1399/

USGS NGP Lidar Base Specification V1.2 http://pubs.usgs.gov/tm/11b4/pdf/tm11-B4.pdf

For Further Information Contact: 3D Elevation Program: gs_baa@usgs.gov



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Purpose of meeting

- Provide a basic overview of the USGS Broad Agency Announcement (BAA) process for 3DEP lidar acquisition
- Present Federal agency requirements for lidar acquisition in Fiscal Year 2016
- Provide an opportunity for federal/regional/state/local entities to present information on areas of interest
- Provide a venue where potential proposal submitters can collaborate and cooperate on project formulation.



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Benefit of coordinated projects

- Larger area projects are more cost efficient
- More cooperators lower costs for each partner in the FY14 BAA that led to the FY15 Awards:
 - The average 3DEP cost share was 36%
 - Proposers are covering an average of 64% of the total cost
 - Many proposals had multiple funding partners
- Eliminates duplicative data collection and provides better value for tax payers



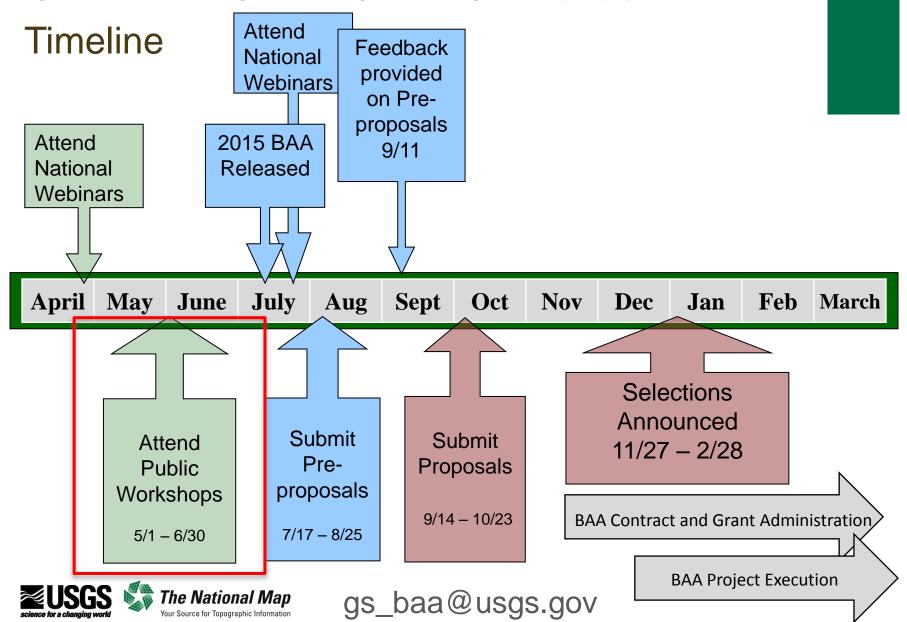
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What is the 3DEP Broad Agency Announcement (BAA)

- The Broad Agency Announcement (BAA) is the competitive solicitation mechanism which the USGS NGP is using to select and partially fund lidar acquisition projects in support of the 3DEP program.
- The opportunity will be advertised in Federal Business
 Opportunities (FedBizOpps) http://www.grants.gov
 http://www.grants.gov
- Proposals may contribute funds toward lidar data acquisition via the USGS Geospatial Products and Services Contract (GPSC) or they may request 3DEP funds toward lidar data acquisition where the requesting partner contracts for the data acquisition
- Federal agencies, state and local governments, tribes, academic institutions and the private sector are eligible to submit proposals

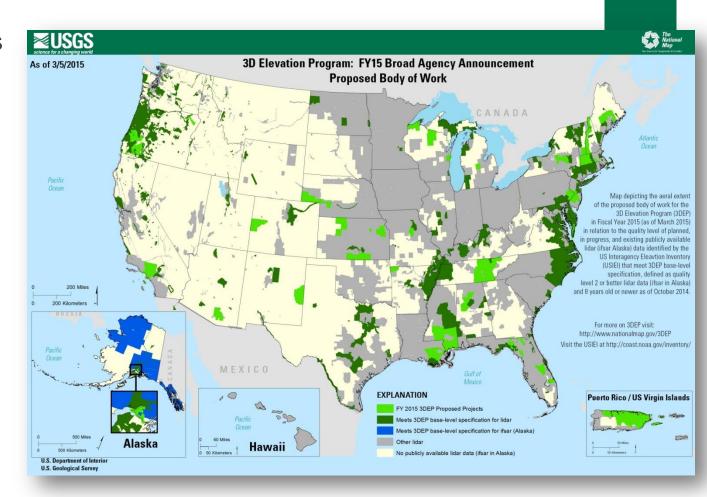


+ 3DEP FY15 BAA / FY16 Awards



Summary of awards made in Fiscal Year 2015

- 72 pre-proposals submitted requesting funds over \$50M
- 29 projects were funded
- USGS, FEMA, and NRCS committed \$9.8M, with a total estimated value from partners of \$26.5M





⁺ 3DEP Program Goals

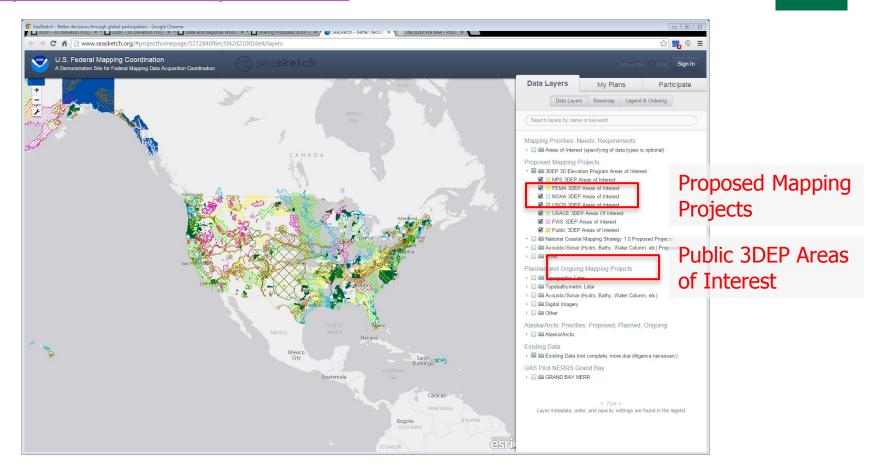
From 3DEP – A Call for Action (USGS Circular 1399)

- QL2 data that are 8 years old or newer across the conterminous US
- QL5 data in Alaska
- Specifications
 - Must at a minimum adhere to the latest USGS Lidar Base Specification (see resources slide)
 - Higher quality lidar may be acquired through partner buy ups.
- Reduce acquisition costs by increasing project area
- Specific evaluation criteria will be in the BAA announcement and presented during the second set of public webinars which will be held directly after the release of the BAA
- Questions should be directed to gs_baa@usgs.gov



Project Viewer – SeaSketch

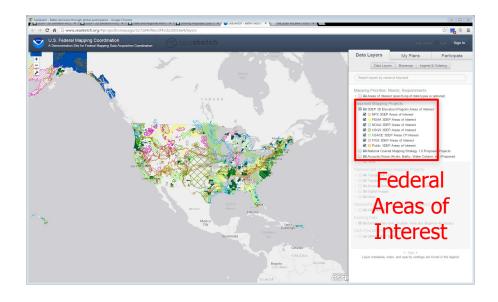
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Project Viewer - SeaSketch

Federal Areas of Interest



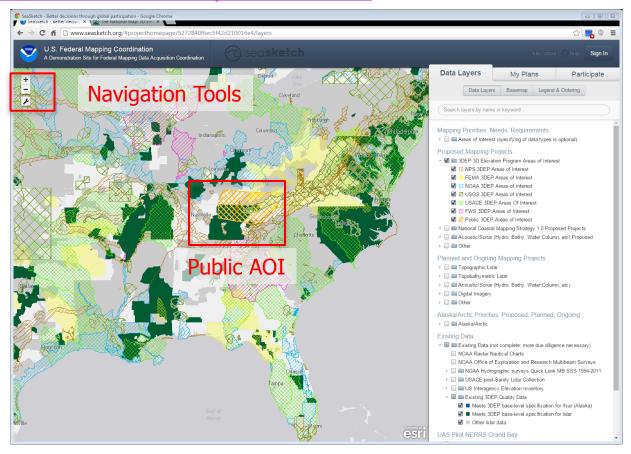
What is a Federal Area of Interest?

- Area in which a Federal agency has a near term requirement for lidar data
- May or may not have identified funding
- Includes POC information to encourage other 3DEP stakeholders to get in touch to discuss opportunities to leverage funding
- Each Federal Agency operates independently; contact individual agency POCs to discuss agency areas of interest.



Project Viewer – SeaSketch

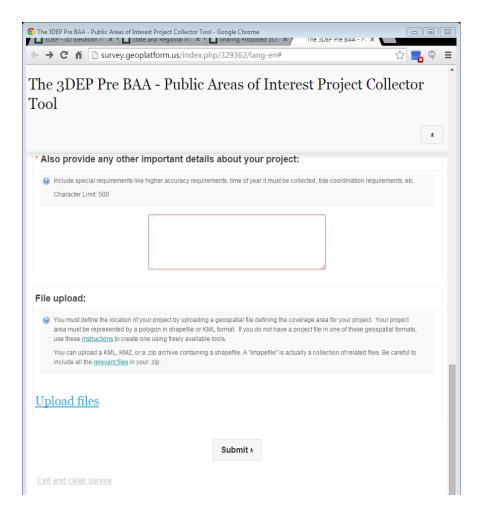
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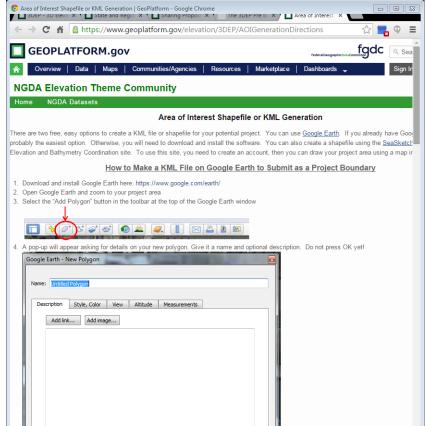




3DEP Pre-BAA Area of Interest Project Collector Tool

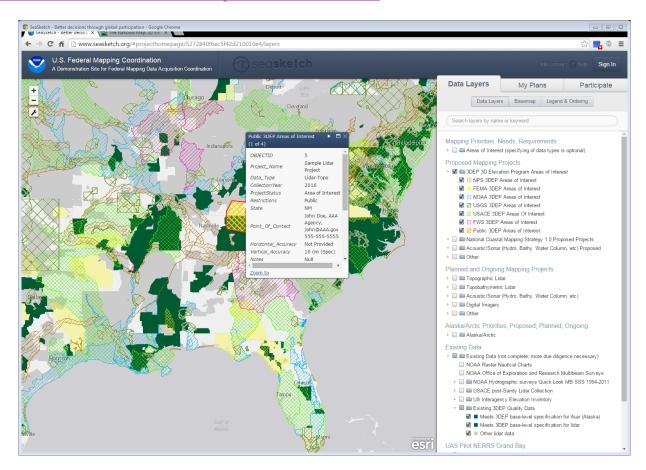


http://www.geoplatform.gov/elevation/3DEP/ **AOIGenerationDirections**





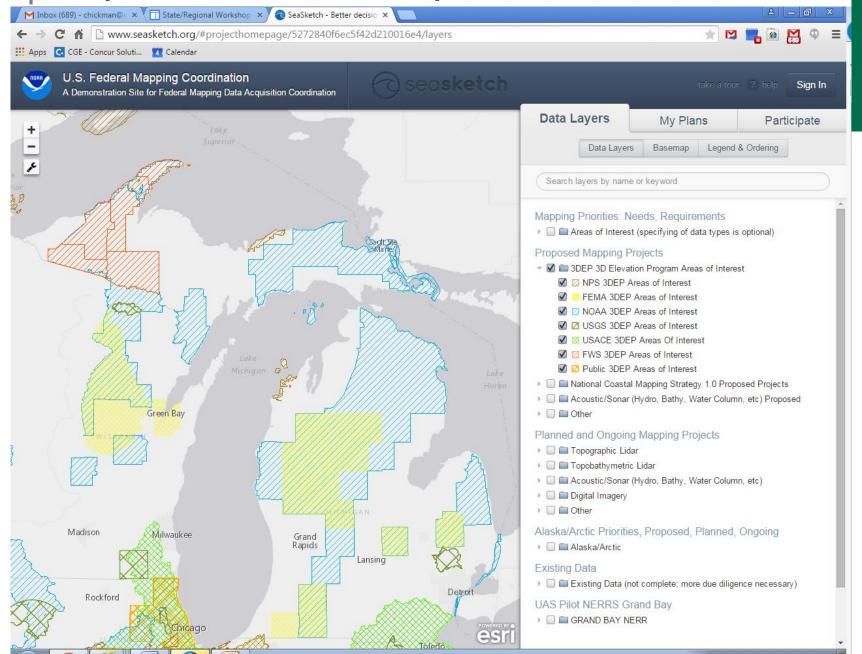
Project Viewer – SeaSketch http://seasket.ch/hwpR3E-MxO







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On-going State Coordination Efforts - Michigan

State of Michigan – Everett Root



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Presentations by potential project submitters

Michigan Geological Survey - John Yellich

- Cass County, to include all southern Michigan - two tiers of counties for geologic mapping and resource studies, aggregates, water. Also, the UP from Mackinaw County west to Ironwood/Wisconsin border.

Spicer Group – Ronald Hansen

- MACDC strategic plan and Saginaw Bay

USDA NRCS - Martin Rosek

USGS Michigan – Cynthia Rachol

Others -

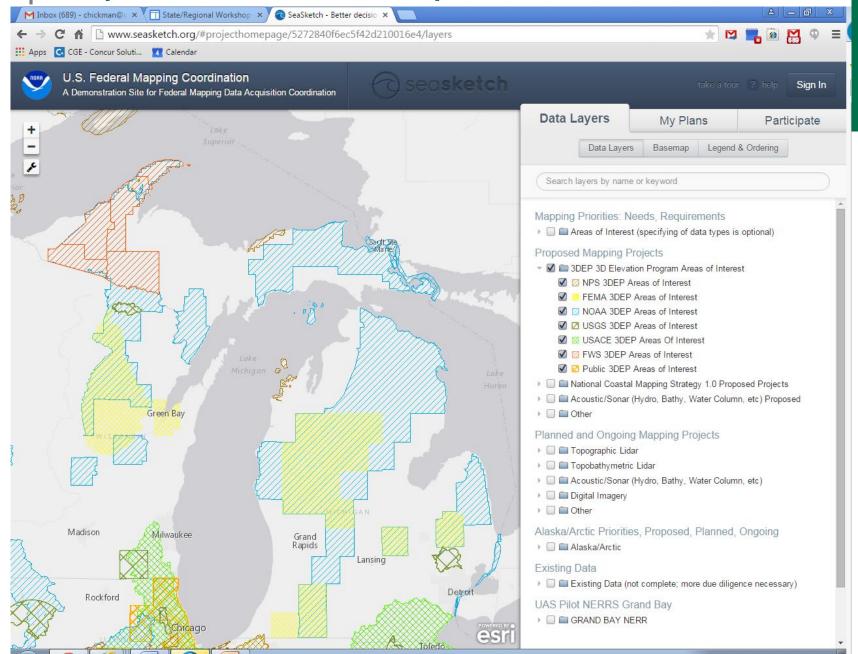


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- Open discussion
- Collaboration among potential partners



http://seasket.ch/hwpR3E-MxO



Quality Levels (QL)	Source	Point Density (pts/m²)	Nominal Pulse Spacing (NPS) (m)	DEM Post Spacing (arc- sec, m)	Vertical RMSEz (cm)	Equivalent Contour Accuracy (ft)
QLl	lidar	8	0.35	1/27, ~1	9.25	1
QL2	lidar	2	0.7	1/27, ~2	9.25	1
QL3	lidar	1-0.25	1-2	1/9, ~3	≤ 18.5	2
QL4	images	0.04	5	1/3, ~10	46.3 – 139	5 – 15
QL5	IfSar	0.04	5	1/3, ~10	92.7 – 185	10 – 20







Federal Agency Representatives for 3DEP Priorities (subject to change)

USGS - Diane Eldridge

NRCS - Bill Marken (soon to USGS)

- [Steve Nechero, Collin McCormick]

USACE - Nancy Blyler

FEMA - Paul Rooney

NOAA - Kirk Waters, Ashley Chappell

BLM - Brian Hadley

Forest Service - Everett Hinkley

USFWS - Kenny Elsner

NGA - Sandy Mitchell

NASA - Dave Harding

OSMRE - Chris Benson

FCC - Don Cambell

EPA - Craig Seaver

